

c) Amendments to Claims

Please cancel claims 23-36 without prejudice or disclaimer of subject matter presented herein. A detailed listing of all the claims that are or were on the application is provided.

1. (Currently Amended) A process for producing a mesostructured ~~thin~~ film having an uniaxially oriented rod-like ~~shaped~~ pore structure, comprising the step of forming the mesostructured ~~thin~~ film on a polymer compound containing a sequence of two or more adjacent methylene groups in a molecular structure of the repeating unit of the polymer compound, wherein the surface of the polymer compound is uniaxially oriented.

2. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the process comprises the step of preparing the polymer compound.

3. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 2, wherein the step of preparing the polymer compound is the step of forming a film of the polymer compound on a base plate.

4. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 2, wherein the step of preparing the polymer compound is the step of forming a Langmuir-Blodgett film as the film of the polymer compound.

5. - 6. (Cancelled)

7. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the mesostructured ~~thin~~ film contains silicon.

8. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 7, wherein the mesostructured ~~thin~~ film contains silica.

9. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the mesostructured ~~thin~~ film is formed by hydrolyzing a silicon alkoxide.

10. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the mesostructured ~~thin~~ film is formed by hydrolysis reaction in the presence of a surfactant.

11. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 10, wherein the surfactant is a quaternary alkylammonium salt.

12. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 10, wherein the surfactant contains a polyethylene oxide as the hydrophilic group.

13. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 10, further comprising the step of removing the surfactant after forming the mesostructured ~~thin~~ film.

14. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 13, wherein the step of removing the surfactant is the step of baking the mesostructured ~~thin~~ film.

15. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 13, wherein the step of removing the surfactant is the step of removing the surfactant by solvent-extraction.

16. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the mesostructured ~~thin~~ film is formed by hydrolysis reaction under an acidic condition.

17. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the mesostructured ~~thin~~ film is formed by bringing a solution containing a material for the mesostructured ~~thin~~ film into contact with a surface of the polymer compound.

18. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein a surface of the polymer compound is subjected to rubbing treatment before the formation of the mesostructured thin film.

19. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 18, wherein the rubbing treatment is conducted in a direction perpendicular to ~~the~~ mesochannels of the mesostructured ~~thin~~ film to be formed.

20. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the number of a sequence of adjacent methylene groups in the repeating unit of the polymer compound ranges from 2 to 20.

21. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the sequence of adjacent methylene groups in the repeating unit of the polymer compound is contained in the main chain of the polymer compound.

22. (Currently Amended) The process for producing a mesostructured ~~thin~~ film according to claim 1, wherein the sequence of adjacent methylene groups in the repeating unit of the polymer compound is contained in the side chain of the polymer compound.

23. - 36. (Cancelled)